

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:


Listing of Claims:

1. (currently amended): A computer-implemented method of creating a video mosaic, comprising:

extracting a first individual frame[[s]] and a second individual frame of imagery ~~taken from a video camera~~ from a series of video frames;

detecting edges in the first individual frame and the second individual frame;

determining regions of interest in the first individual frame and the second individual frame based on the detected edges;

 identifying commonality from [[one]] the first individual frame to the [[next]] second individual frame, including correlating determined regions of interest between the two individual frames by comparing each region of interest in the first individual frame to a region of interest in the second individual frame;

overlapping the individual frames based on the commonality identified from the first individual frame to the second individual frame and displaying an image representing a continuous area.

2. (original): The method of claim 1, wherein the video camera takes images at 30 frames per second.

3. (original): The method of claim 2, wherein the images are stored in files in MPEG format.

4. (original): The method of claim 3, comprising converting the MPEG files into black and white format.

5-6 (canceled):

7. (original): The method of claim 1, comprising compensating for platform/camera motion.

8. (currently amended): The method of claim [[6]] 1, comprising:

searching frame for an edge;

following adjacent on pixels until an off pixel is detected;

counting a number of on pixels and if above a preset threshold, designate as a structure;

repeat said searching said following and said counting steps until entire image is structure detected.

9. (currently amended): The method of claim [[8]] 1, comprising storing the location of on pixels within each designated structure.

10. (original): The method of claim 9, comprising changing value of pixels within a designated structure to avoid use in future structures.

11. (original): The method of claim [[6]] 1, comprising correlating regions of interest by comparing each region of interest to each other region of interest.

12. (Currently amended): The method of claim [[11]] 1, comprising:

calculating a centroid for each region of interest in [[a]] the first individual frame;

comparing the centroid in the first individual frame with all centroids of ~~next-adjacent~~ the second individual frame;

selecting centroids in the ~~next-adjacent~~ second individual frame within an error tolerance;

correlating an average distance from every pixel in a region of interest in the first frame with every pixel in a corresponding structure region of interest in the ~~next-adjacent~~ second individual frame;

~~corresponding structure in the next adjacent frame;~~

[[if]] determining the most consistent average distance is consistent between [[two]] a corresponding structures region of interest in the first frame and a corresponding region of interest in the second frame;

wherein the overlapping step is performed based on the determined most consistent average distance.

13. (Currently amended): A computer architecture, comprising:

extracting means for extracting individual frames a first individual frame and a second individual frame of imagery taken from a video camera from a series of video frames;

detecting means for detecting edges in the first individual frame and the second individual frame;

determining means for determining regions of interest in the first individual frame and the second individual frame based on the detected edges detected by the detecting means;

identifying means for identifying commonality from [[one]] the first individual frame to the [[next]] second individual frame, including correlating determined regions of interest between the two individual frames by comparing each region of interest in the first individual frame to a region of interest in the second individual frame;

overlapping means for overlapping the individual frames based on the commonality identified by the identifying means from the first individual frame to the second individual frame and displaying an image representing a continuous area.

14. (currently amended): An article, comprising:

at least one sequence of machine executable instructions;

a medium bearing the executable instructions ~~in machine form~~, wherein execution of the instructions by one or more processors causes the one or more processors to:

extract a first individual frame[[s]] and a second individual frame of imagery taken from a video camera from a series of video frames;

detecting edges in the first individual frame and the second individual frame;

determining regions of interest in the first individual frame and the second individual frame based on the detected edges;

identify commonality from [[one]] the first individual frame to the [[next]] second individual frame, including correlating determined regions of interest between the two individual frames by comparing each region of interest in the first individual frame to a region of interest in

the second individual frame;

overlapping the individual frames based on the commonality identified from the first individual frame to the second individual frame and displaying an image representing a continuous area.

15. (Currently amended): A computer system, comprising:

a processor; and

a memory coupled to said processor, the memory having stored therein sequences of instructions, which, when executed by said processor, causes said processor to perform the steps of:

extracting a first individual frame[[s]] and a second individual frame of taken from a video camera from a series of video frames;

detecting edges in the first individual frame and the second individual frame;

determining regions of interest in the first individual frame and the second individual frame based on the detected edges;

identifying commonality from [[one]] the first individual frame to the [[next]] second individual frame, including correlating determined regions of interest between the two individual frames by comparing each region of interest in the first individual frame to a region of interest in the second individual frame;

overlapping the individual frames based on the commonality identified from the first individual frame to the second individual frame and displaying an image representing a continuous area.